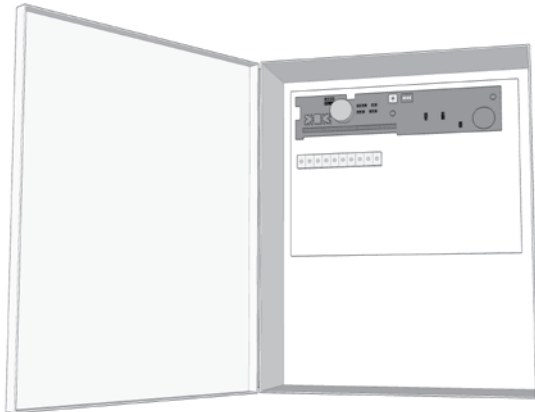


## OVERVIEW

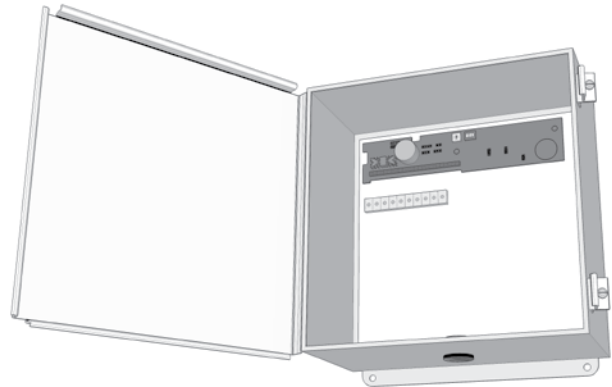
The 3101B-ES and 3101B-R Delayed Egress Controllers are the “electronics only” portion of the 3101B maglock. Common applications include outdoor gate locks or inswing doors which require delay egress functionality. Controllers require other components (not included) for a fully functional delay egress opening to function. See page 4 for more information.

Both models are identical except for the enclosure style:

- 3101B-ES is in a standard 15”x12”x4” steel enclosure
- 3101B-R is in a 12”x12”x6” weatherproof enclosure with built-in alarm horn



**3101B-ES**



**3101B-R**

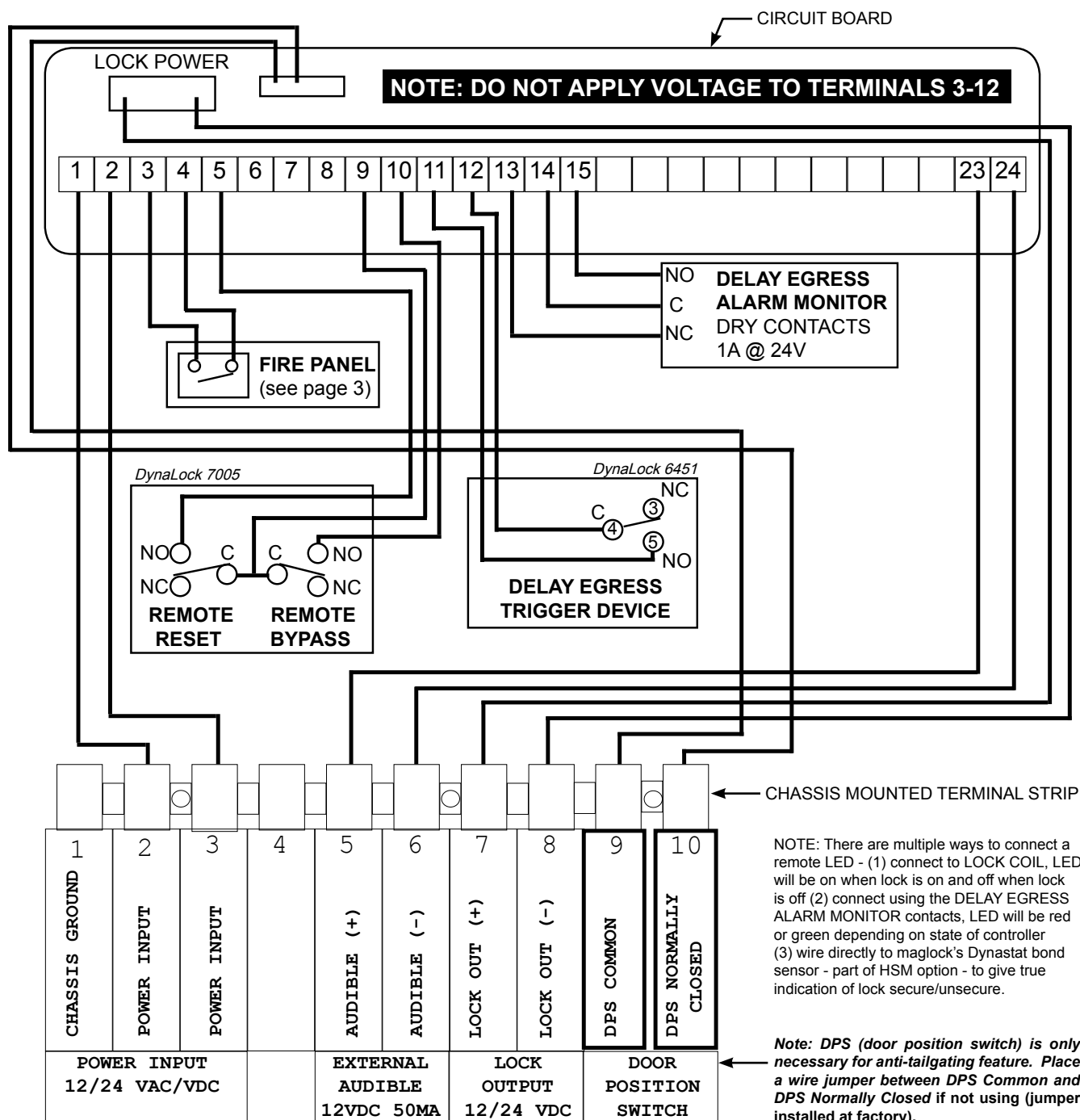
## DESCRIPTION OF OPERATION

The door is normally closed and secured by the fail-safe electronic lock. Attempting to exit by actuating the delay egress trigger device (moving the door if using door contact, pushing the exit sensor bar, etc.) for the duration of the nuisance delay time (selectable 1 or 3 seconds) will activate the delay egress sequencer. The remote audible (built-in on 3101B-R) will then pulsate for 15 seconds\* (1 second rate) and the bi-color LED on the center of the circuit board will blink red. After 15 seconds\* the lock will release, with the audible changing to a continuous tone, and the bi-color LED turns green. The unit will stay in alarm, and the door unlocked, until the door is shut and the controller is reset by way of the remote reset input (typically connected to a keyswitch) or remote bypass input (only after 15 seconds\* has elapsed). Delay egress monitor output relay is provided to monitor the status (state change upon initiation of 15 second\* countdown, after the nuisance delay time). Remote bypass input (terminals 9&10) allows opening the door for adjustable 0-90 seconds without an alarm (using a keyswitch, keypad, card reader, etc.) featuring anti-tailgating which allows immediate door relock as soon as door shuts (requires the connection of a door contact).

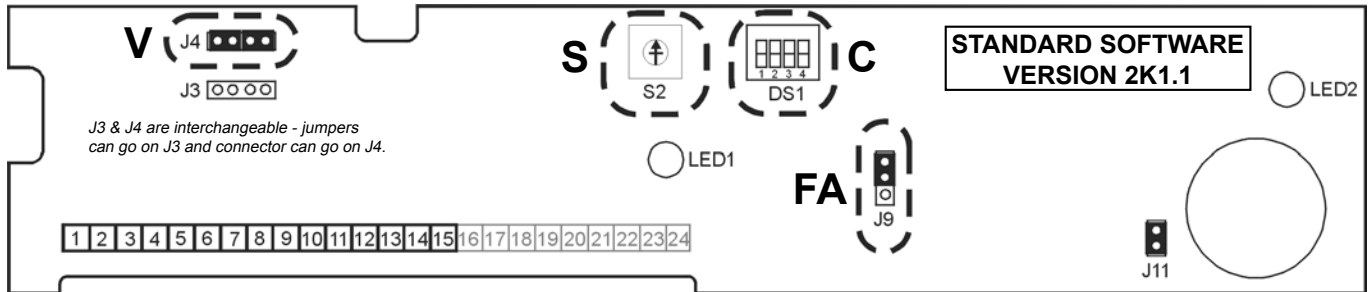
*\*30 seconds if selected*

### WIRING

NOTE: The controller accepts 12 or 24 VAC/VDC. Be sure to set the controller's voltage jumpers (page 3) to match what is connected to POWER INPUT. No selection is required for AC/DC. This will also determine the LOCK OUTPUT voltage (always DC out). Controller uses approx. 100mA.

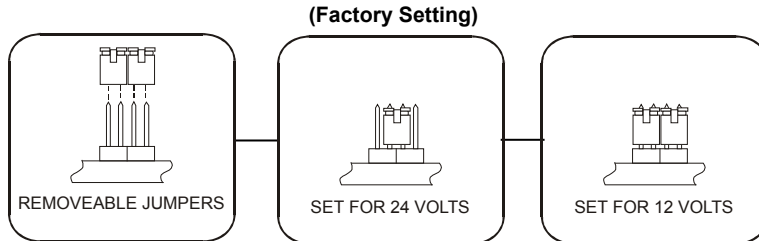


### CIRCUIT BOARD SETTINGS



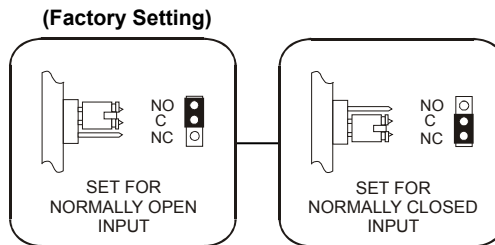
### V - Voltage Selection

Check that the voltage selection jumper (J4) is properly set to match your input power. Note that all units are factory set for 24 volts. This will also determine the LOCK OUTPUT voltage (DC out only).



### FA - Fire Alarm Control

Check that the fire alarm control jumper (J9) is properly set to match your fire panel input contacts. If fire panel tie-in is not required leave jumper at factory setting (N.O.).



### S - Remote Bypass Relock Time

A contact closure on remote bypass (terminals 9 & 10 on circuit board) will immediately release the lock without alarm. The door will remain unlocked for a period of time controlled by S2. To increase the delay, rotate S2 clockwise. Range is 1 to 75 seconds (~5 sec. per click).

### C - System Selector Switches

The selector switches (DS1) that control major system functions are factory set to the OFF position for basic lock operation.

Bypass audible - audible during remote bypass (terminals 9&10 on circuit board).

SWITCH	FUNCTION	MODE SETTINGS	
		OFF	ON
1	NOT USED	<b>NORMAL</b>	—
2	BYPASS AUDIBLE	<b>DISABLED</b>	ENABLED
3	NUISANCE DELAY	<b>1 SEC.</b>	3 SEC.
4	EGRESS DELAY	<b>15 SEC.</b>	30 SEC.

## INDICATOR & AUDIBLE DESCRIPTIONS

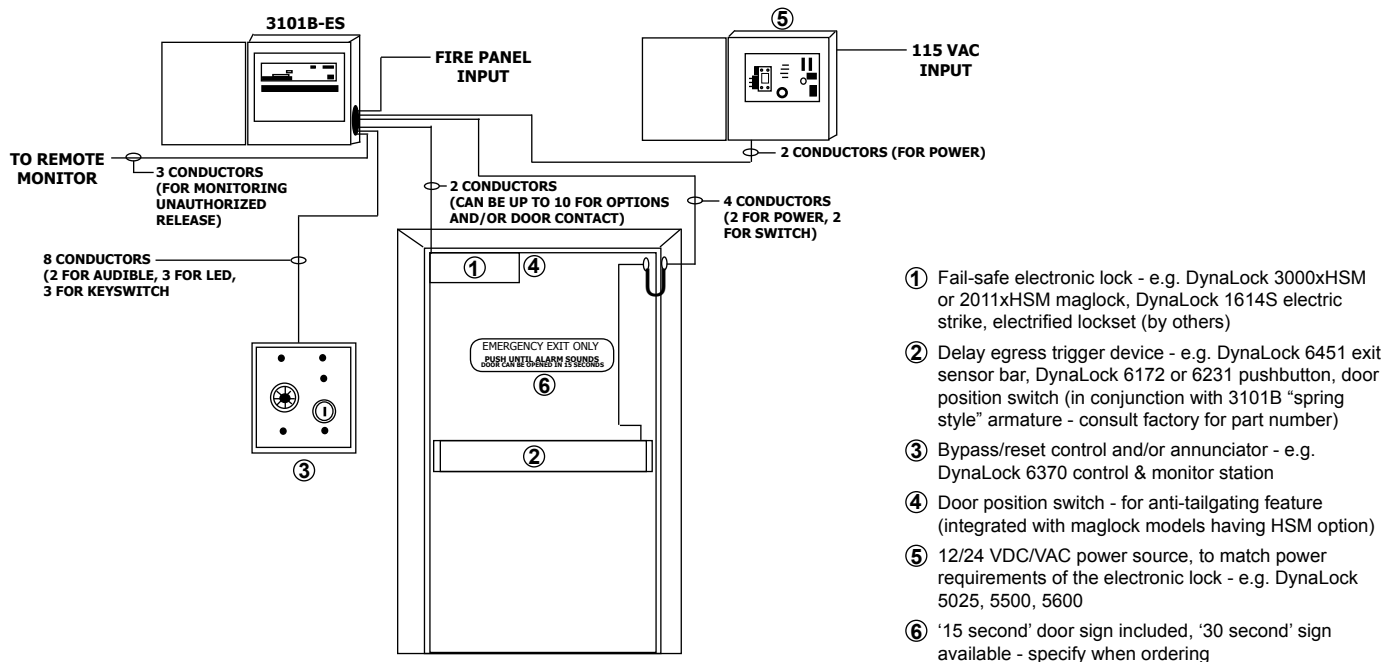
**LED1 - BI-COLOR LED INDICATOR**  
(Located at center of circuit board.)  
Indicates lock and alarm status.

**LED2 - WATCHDOG LED INDICATOR**  
(Located upper right corner of circuit board.)  
Troubleshooting indicator - monitors proper operation of the microprocessor.

CONDITION	AUDIBLE SIGNAL	LOCK	LED 1	LED 2
DELAY EGRESS ALARM	One second pulse rate during delay cycle.	ON	BLINK RED	RED
DELAY EGRESS ALARM	Steady tone after delay until reset.	OFF	GREEN	RED
FIRE ALARM RELEASE	Steady tone until fire alarm contacts are reset.	OFF	GREEN	RED
OPTIONAL REMOTE AUTHORIZED BYPASS (TERMINALS 9&10 ON CIRCUIT BOARD)	None, unless bypass audible is enabled (dip switch 2). If door is held open past relock time, unit goes into delay egress alarm & requires reset.	OFF	GREEN	RED
FACTORY SERVICE REQUIRED	Steady tone.	N/A	N/A	BLINK RED OR OFF

## TYPICAL SYSTEM INSTALLATION

(additional components not included)



FOR PRODUCT SUPPORT AND PARTS ORDERING INFORMATION CONTACT:

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